

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



Applicant(s): Lin He
Steven B. Ogunwumi
Serial No.: 09/685,384

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Title: NH₃ GENERATION CATALYSTS
FOR LEAN-BURN AND DIESEL
APPLICATIONS

Assistant Commissioner for Patents
Washington, DC 20231

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US
9/27/02
Group Art Unit: 1754

Examiner: Edward M. Johnson

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Amendment A

This communication is in response to the Office Action mailed on June 4, 2002 in connection
with the above identified application.

Please amend the application as follows:

In the Claims.

Please cancel claims 30, 35-41.

Please replace the following amended claims with their original counterparts:

1. (Amended) A catalyst for converting NO_x in exhaust gases to NH₃ comprising:
at least one metal oxide impregnated with at least one noble metal, the metal oxide
selected from the group consisting of Fe₂O₃, Cr₂O₃, MgO, ZnO, TiO_x, wherein x is less than
2, a combination of Fe₂O₃ and La₂O₃, and a combination of Fe₂O₃ and CeO₂, the noble metal
selected from the group consisting of Pt, Pd, Ir, Rh, and Ru.

2. (Amended) The catalyst of claim 1 further comprising at least one promoter metal
oxide at an amount no more than 5 percent, wherein the promoter metal oxide is selected
from the group of oxides consisting of Fe, Zn, Cu, Mo, Co, Ti, Ni, Cr, and V.

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